

Figure 1

Sequence ID 1: human interferon alpha 1 (GenBank 13128950)

MASPFALLMVLVVLSCKSSCSLGCPLDPTHSLDNRRITLMLLAQMSRISPSSCLMDRHDFGF
PQEEFDGNQFQKAPASVLHELIQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQNLNDLEACV
MQEERVGETPLMNADSILAVKKYFRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERL
RRKE

Sequence ID 2: human interferon alpha-2a (GenBank 2781226)

CDLPQTHSLGSRRTLMLLAQMRKISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVLHEMIQ
QIFNLFSTKDSSAAWDETLLDKFYTELYQQNLNDLEACVIQGVGVTTETPLMKEDSILAVRKYF
QRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE

Sequence ID 3: human interferon alpha-2b (GenBank 30171279)

MCDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVLHEMI
QQIFNLFSTKDSSAAWDETLLDKFYTELYQQNLNDLEACVIQGVGVTTETPLMKEDSILAVRKY
FQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE

Sequence ID 4: human interferon alpha 4 (GenBank 10835103)

MALSFSLLMAVLVLSYKSICSLGCPLDPTHSLGNRRALILLAQMGRISHFSCLKDRHDFGFP
EEEFDGHQFQKAQAISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNLNDLEACVI
QEVGVEETPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLR
RKD

Sequence ID 5: human interferon alpha 5 (GenBank 4504597)

MALPFVLLMALVVLNCKSICSLGCPLDPTHSLSNRRITLMIMAQMGRISPFSCCLKDRHDFGFP
QEEFDGNQFQKAQAISVLHEMIQQTFNLFSTKDSSATWDETLLDKFYTELYQQNLNDLEACM
MQEVGVEDTPLMNVDSILTVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSANLQERL
RRKE

Sequence ID 6: human interferon alpha 6 (GenBank 11128015)

MALPFALLMALVVLSCKSSCSLDCPLDPTHSLGHRRTMMLLAQMRRISLFSCLKDRHDFRF
PQEEFDGNQFQKAQAISVLHEVIQQTFNLFSTKDSSVAWDERLLDKLYTELYQQNLNDLEAC
VMQEVWVGGTPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSSSRNLQE
RLRRKE

Sequence ID 7: human interferon alpha 7 (GenBank 10800142)

MARSFSLLMAVLVLSYKSICSLGCPLDPTHSLRNRRALILLAQMGRISPFSCCLKDRHEFRFP
EEEFDGHQFQKTQAISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNLNDLEACVI
QEVGVEETPLMNEDFILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSFSTNLKKGLR
RKD

Sequence ID 8: human interferon alpha 8 (GenBank 4504599)

MALTFYLMVALVLSYKSFSSLGCDLPQTHSLGNRRALILLAQMRRISPFSCCLKDRHDFEFP
QEEFDGKQFQKAQAISVLHEMIQQTFNLFSTKDSSAALDETLLDEFYIELDQQNLNDLEVLCD
QEVGVIESPLMYEDSILAVRKYFQRITLYLTEKKYSSCAWEVVRAEIMRSFSLINLQKRLKS
KE

Sequence ID 9: human interferon alpha 10 (GenBank 4504589)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLGQMGRISPFSCCLKDRHDFRIPQ
EEFDGNQFQKAQAISVLHEMIQQTFFNLSTEDSSAAWEQSLLEKFSTELYQQQLNDLEACVIQ
EVGVEETPLMNEDSILAVRKYFQRITLYLIERKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRK
D

Sequence ID 10: human interferon alpha 13 (GenBank 13128966)

MASPFALLMALVVLSCSSCSLGCNLSQTHSLNNRRTLMLLAQMSRISPSSCLMDRHDFGF
PQEEFDGNQFQKAPASVLHELIQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQQLNDLEACV
MQEERVGETPLMNADSILAVKKYFRRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERL
RRKE

Sequence ID 11: human interferon alpha 14 (GenBank 4504591)

MALPFALMMALVVLSCSSCSLGCNLSQTHSLNNRRTLMLMAQMRRISPFSCLKDRHDFE
FPQEEFDGNQFQKAQAISVLHEMMQQTFFNLSTKNSSAAWDETLLEKFYIELFQQMNDLEA
CVIQEVGVEETPLMNEDSILAVKKYFQRITLYLMEKKYSPCAWEVVRAEIMRSFSFSTNLQK
RLRRKD

Sequence ID 12: human interferon alpha 16 (GenBank 4504593)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISHFSCCLKDRYDFGFP
QEVFDGNQFQKAQAISAFHEMIQQTFFNLSTKDSSAAWDETLDDKFYIELFQQQLNDLEACVT
QEVGVVEIALMNEDSILAVRKYFQRITLYLMGKKYSPCAWEVVRAEIMRSFSFSTNLQKGLR
RKD

Sequence ID 13: human interferon alpha 17 (GenBank 10880985)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISPFSCCLKDRHDFGLP
QEEFDGNQFQKTQAISVLHEMIQQTFFNLSTEDSSAAWEQSLLEKFSTELYQQQLNNLEACVI
QEVGMEETPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKILR
RKD

Sequence ID 14: human interferon alpha 21 (4504595)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISPFSCCLKDRHDFGFP
QEEFDGNQFQKAQAISVLHEMIQQTFFNLSTKDSSATWEQSLLEKFSTELNQQQLNDMEACV
IQEVGVEETPLMNVDSILAVKKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSKIFQERLR
RKE

Sequence ID 15: human interferon beta (GenBank 124469), signal peptide deleted

MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKR
YYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGYLNR

Sequence ID 16: human interferon kappa (GenBank 14488028)

MSTKPDMIQKCLWLEILMGIFIAGTSLDCNLLNVHLRRVTWQNLRLHSSMSNSFPVECLRE
NIAFELPQEFLQYTQPMKRDIIKAFYEMSLQAFNIFSQHTFKYWKERHLKIQIQIGLDQQAQY

LNQCLEEDENENEDMKEMKENEMKPSEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEI
VRVEIRRCLYYFYKFTALFRRK

Sequence ID 17: human interferon tau (GenBank 28882045)

MIKHFFGTVLVLLASTTIFSLDLKLIIFQQRQVNQESLKLLNKLQTLISIQQCLPHRKNFLLPQK
SLSPQQYQKGHTLAILHEMLQQIFSLFRANISLDGWEENHTEKFLIQLHQQLEYLEALMGLE
AEKLSGTLGSDNLRQLQVKMYFRRIHDYLENQDYSTCAWAIVQVEISRCLEFFVFSLTEKLSKQ
GRPLNDMKQELTTEFRSPR

Sequence ID 18: human interferon omega (GenBank 4504605)

MALLFPLLAALVMTSYSPVGSGLGCDLPQNHGLLSRNTLVLLHQMRRISPFLCLKDRRDFRFP
QEMVKGSQQLQKAHVMSVLHEMLQQIFSLFHTERSSAAWNMTLLDQLHTGLHQQQLQHLETC
LLQVVGEGESAGAISSPALTLRRYFQGIRVYLKEKKYSDCAWEVVRMEIMKSLFLSTNMQE
RLRSKDRDLGSS

Sequence ID 19: interferon beta variant #2 L5Q in C17S background

MSYNQLGFLQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKR
YYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGylRN

Sequence ID 20: interferon beta variant #7 L5Q/F8E in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKR
YYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGylRN

Sequence ID 21: interferon beta variant #15 L5Q/F8E/F111N in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKLMSSLHLK
RYYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGylRN

Sequence ID 22: interferon beta variant #23 L5Q/F8E/L116E in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKEMSSLHLK
RYYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGylRN

Sequence ID 23: interferon beta variant #36 F8E/F111N/L116E in C17S background

MSYNLLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSLHLK
RYYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGylRN

Sequence ID 24: interferon beta variant #39 L5Q/F8E/F111N/L116E in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSLHLK
RYYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGylRN

Sequence ID 25: interferon beta variant #64 L5Q/F8E/L47K/F111N/L116E/L120R in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQKQQFQKEDAALTIYE
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSRHLK
RYYGRILHYLKAKEYSHCAWTIVRVEI LRNFYFINRLTGYL RN

Sequence ID 26: interferon kappa variant #4_G7 V8N/W15R/Y48Q/M52N/F76S/Y78A/I89T
LDCNLLNNHLRRVTRQNLRLHLSSMSNSFPVECLRENI AFELPQEFLQQTQPNKRDIKKAFYE
MSLQAFNIFSQHTSKAWKERHLKQIQGTGLDQQA EYLNQCLEEDENENEDMKEMKENEMKP
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

Sequence ID 27: interferon kappa variant #46_E2
W15R/I37N/Y48Q/M52N/F76S/Y78A/I89T/ Y97D/V161A/C166A/Y168S/Y171T
LDCNLLNVHLRRVTRQNLRLHLSSMSNSFPVECLRENN AFELPQEFLQQTQPNKRDIKKAFY
EMSLQAFNIFSQHTSKAWKERHLKQIQGTGLDQQAEDLNQCLEEDENENEDMKEMKENEMK
PSEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRAEIRRALS YFTKFTALFRRK

Sequence ID 28: interferon kappa variant #47_C4 W15R/F76S/Y78A
LDCNLLNVHLRRVTRQNLRLHLSSMSNSFPVECLRENI AFELPQEFLQYTQPMKRDIKKAFYE
MSLQAFNIFSQHTSKAWKERHLKQIQIGLDQQA EYLNQCLEEDENENEDMKEMKENEMKP
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

Sequence ID 29: interferon kappa variant #23_C10 I37N/Y48Q/M52N/F76S/Y78A/Y97D
LDCNLLNVHLRRVTWQNLRLHLSSMSNSFPVECLRENN AFELPQEFLQQTQPNKRDIKKAFY
EMSLQAFNIFSQHTSKAWKERHLKQIQIGLDQQAEDLNQCLEEDENENEDMKEMKENEMK
PSEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

Sequence ID 30: interferon kappa variant #40_A10 W15R/I37N/F76S/Y78A
LDCNLLNVHLRRVTRQNLRLHLSSMSNSFPVECLRENN AFELPQEFLQYTQPMKRDIKKAFY
EMSLQAFNIFSQHTSKAWKERHLKQIQIGLDQQA EYLNQCLEEDENENEDMKEMKENEMK
PSEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

Figure 2

Seq ID

30 1: 24 CDLPETHSLDNRRITLMLLAQMSRISPSSCLMDRHDGFGFPQEEFDGNQFQKAPASVLHEL 83
 31 2a: 2 CDLPQTHSLGSRRTMLLAQMRKISLFSCLKDRHDFGFPQEEF-GNQFQKAETIPVLHEM 60
 32 2b: 2 CDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEF-GNQFQKAETIPVLHEM 60
 33 4: 24 CDLPQTHSLGNRRALILLAQMGRISHFSCCLKDRHDFGFPQEEFDGHQFQKAQASVLHEM 83
 34 5: 24 CDLPQTHSLSNRRITLMIMAQMGRISPFSCLKDRHDFGFPQEEFDGNQFQKAQASVLHEM 83
 35 6: 24 CDLPQTHSLGHRRTMMLLAQMRRISLFSCLKDRHDFRFPQEEFDGNQFQKAQASVLHEV 83
 36 7: 24 CDLPQTHSLNRRLALILLAQMGRISPFSCLKDRHEFRFPQEEFDGHQFQKTQASVLHEM 83
 37 8: 24 CDLPQTHSLGNRRALILLAQMRRISPFSCLKDRHDFEFPQEEFDGKQFQKAQASVLHEM 83
 38 10: 24 CDLPQTHSLGNRRALILLGQMGRISPFSCLKDRHDFRIPQEEFDGNQFQKAQASVLHEM 83
 39 13: 24 CDLPETHSLDNRRITLMLLAQMSRISPSSCLMDRHDGFGFPQEEFDGNQFQKAPASVLHEL 83
 40 14: 24 CNLSQTHSLNNRRITLMLMAQMRRISPFSCLKDRHDFEFPQEEFDGNQFQKAQASVLHEM 83
 41 16: 24 CDLPQTHSLGNRRALILLAQMGRISHFSCCLKDRYDFGFPQEVFDGNQFQKAQASAFHEM 83
 42 17: 24 CDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFGLPQEEFDGNQFQKTQASVLHEM 83
 43 21: 24 CDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFGFPQEEFDGNQFQKAQASVLHEM 83

1: 84 IQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQLNDLEACVMQEERVGETPLMNADSILAV 143
 2a: 61 IQQIFNLFTSKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGTETPLMKEDSILAV 120
 2b: 61 IQQIFNLFTSKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGTETPLMKEDSILAV 120
 4: 84 IQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNDLEACVIEVGVEETPLMNEDSILAV 143
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 13: 84 IQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQLNDLEACVMQEERVGETPLMNADSILAV 143
 14: 84 MQQTFNLFSTKNSSAAWDETLLLEKFYIELFQQMNDLEACVIEVGVEETPLMNEDSILAV 143
 16: 84 IQQTFNLFSTKDSSAAWDETLLDKFYIELFQQLNDLEACVTQEVGVIEIALMNEDSILAV 143
 17: 84 IQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNNDLEACVIEVGMEETPLMNEDSILAV 143
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1: 144 KKYFRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERLRRKE 189
 2a: 121 RKYFQIRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE 166
 2b: 121 RKYFQIRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE 166
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 8: 144 RKYFQIRITLYLTEKKYSSCAWEVVRAEIMRSFSLSLINLQKRLKSKE 189
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 13: 144 KKYFRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERLRRKE 189
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Figure 3

44 IFNK: ldcnllnvhlrrvtwqnlrhlssmsnsfpveclreniafelpqeflqytq
45 1AU1: MSYNLLGFLQRSSNFQCQKLLWQLNGRLEY-CLKDRMNFDIPEEIKQLQQ
46 1B5L: CYLSRKLMLDAR-ENLKLLDRMNRLSPHSCLQDRKDFGLPQEMVEGDQ
47 1ITF: CDLPQTHSLGSR-RTLMLLAQMRKISLFSCLKDRHDFGFPQE-EFGNQ

IFNK: pmkrdikkafyemslqafnifsqht--fkywkerhkqiqigldqqaeyln
1AU1: FQKEDAALTIYEMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLK
1B5L: LQKDQAFPVLYEMLQQSFNLFYTEHSSAAWDTTLLEQLCTGLQQQLDHL
1ITF: FQKAETIPVLHEMIQQIFNLFSTKDSSAAWDETLLDKFYTELYQQLNLE

IFNK: qcleedenenedmkemkenemkpsearvpqlsslelrryfhridnflkek
1AU1: TV-----LEEKLEKEDFTRGKLMSSLHLKRYYGRILHYLKAK
1B5L: TC-----RG|MDPIVTVKKYFQGIYDYLQEK
1ITF: AC-----VIQGVGTETPLMKEDSILAVRKYFQRITLYLKEK

IFNK: kysdcaweivrveirrclyyfykftalfrk
1AU1: EYSHCAWTIVRVEILRNFYFINRLTGylRN
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1ITF: KYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE

Figure 4

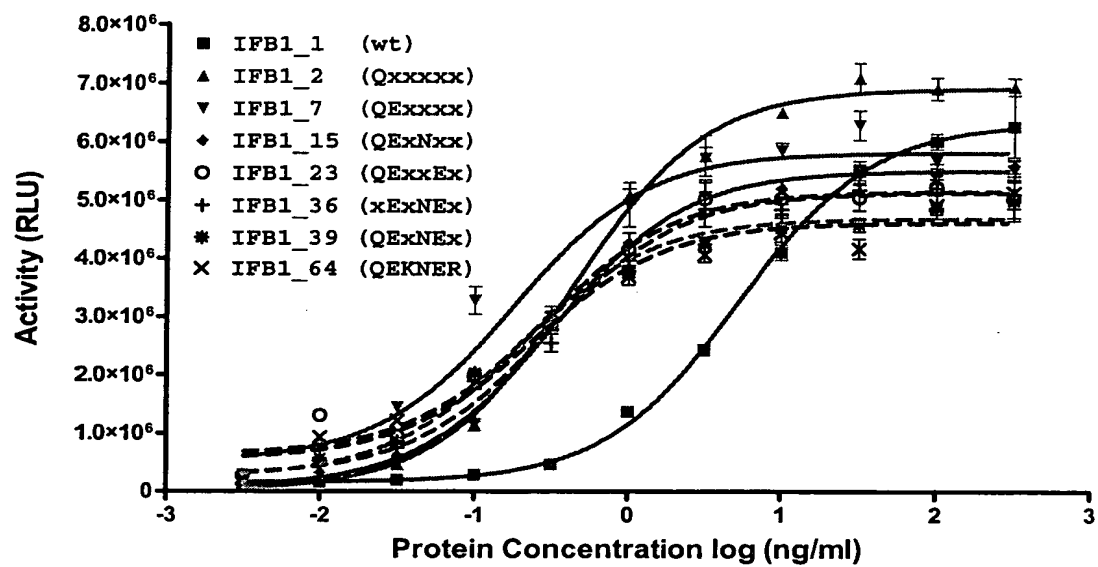


Figure 5

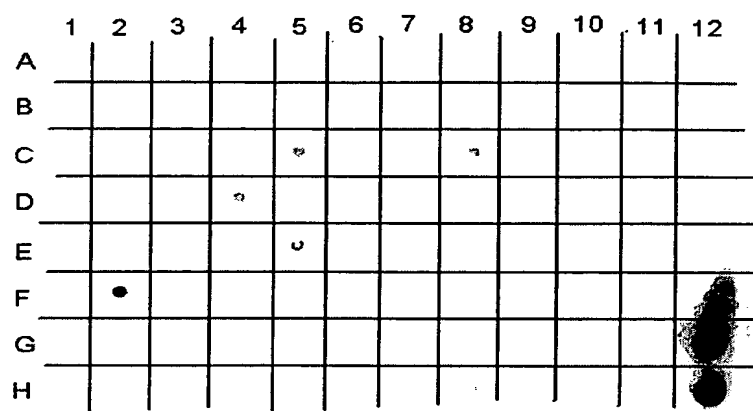
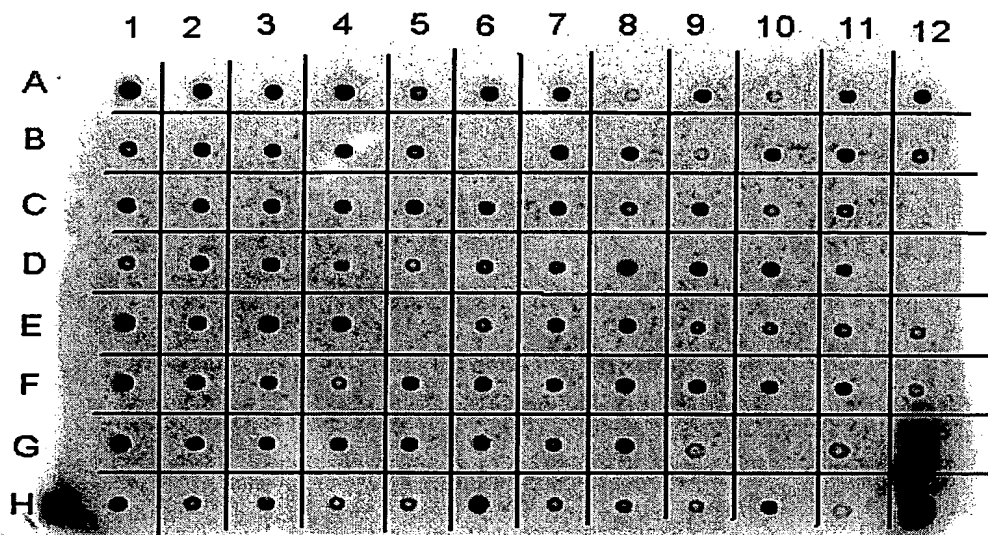


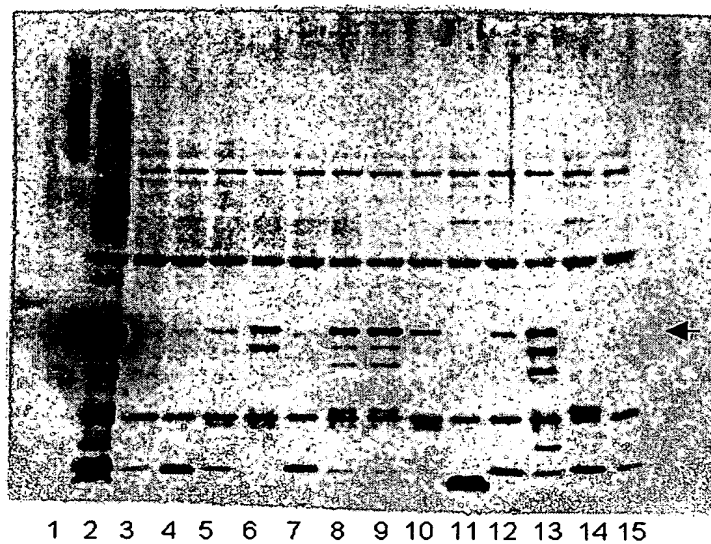
Figure 6



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Figure 7

IK1 RETEST PLATE #1
WESTERN #3



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Figure 8

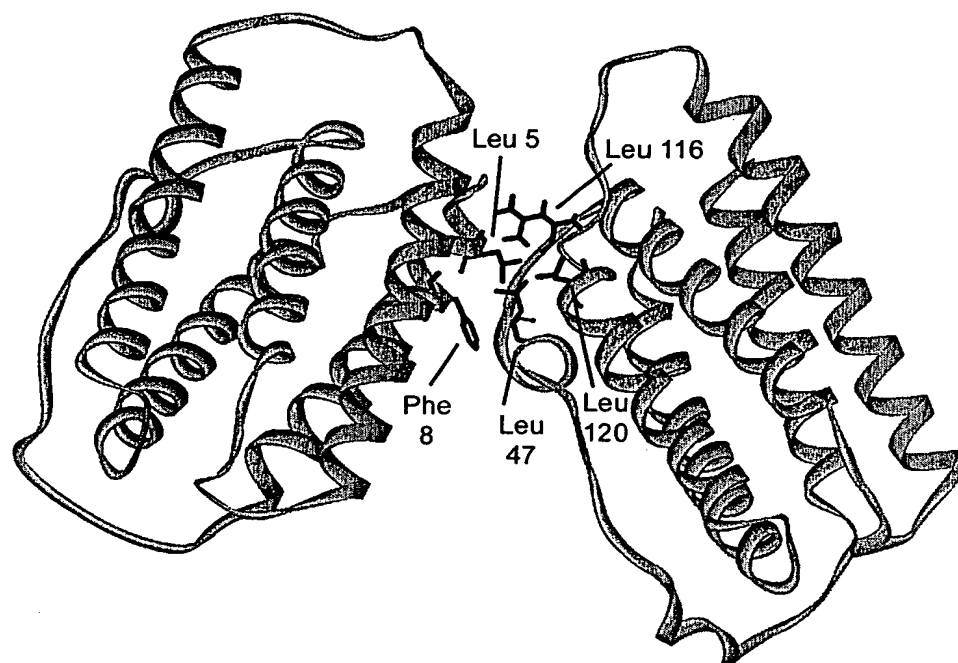


Figure 9

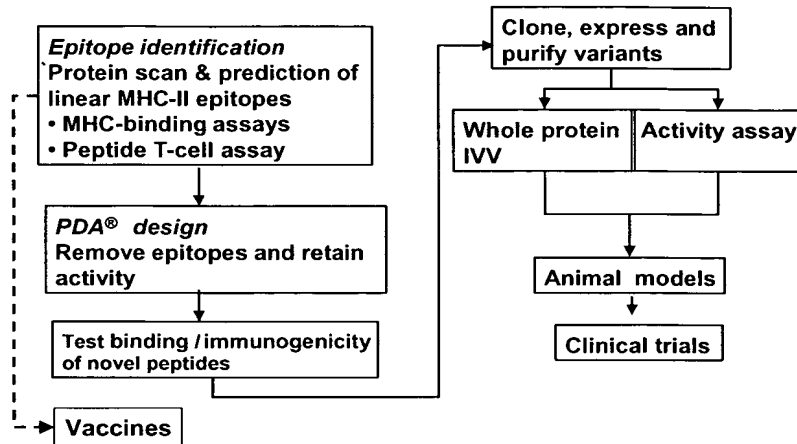


Figure 8 10

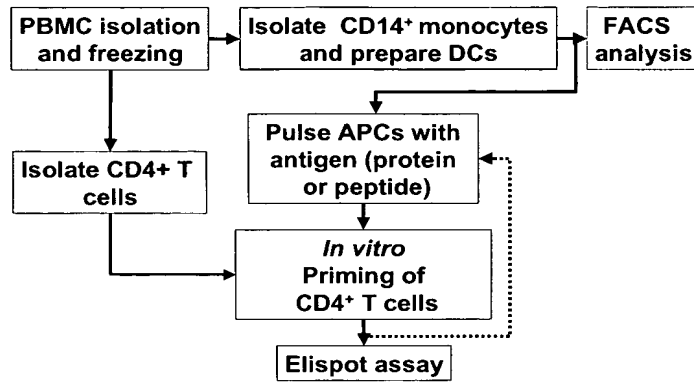
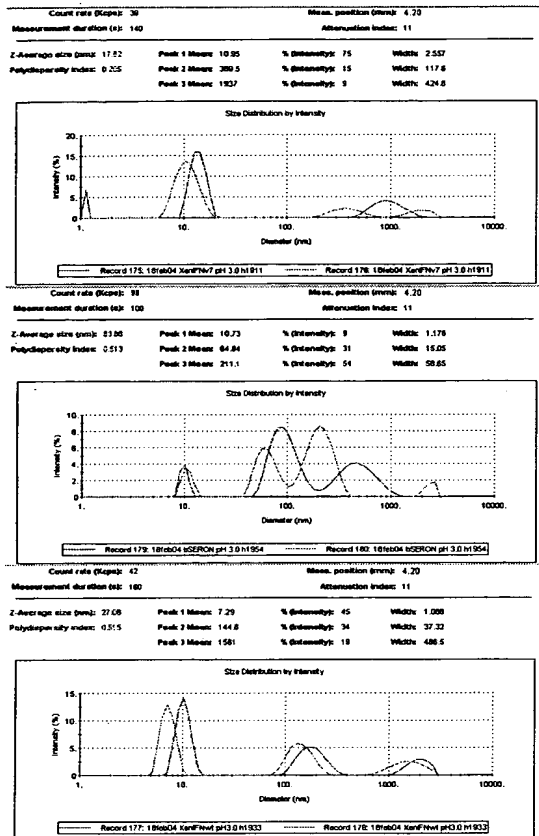
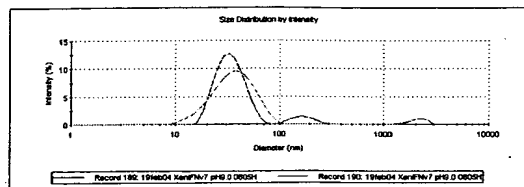


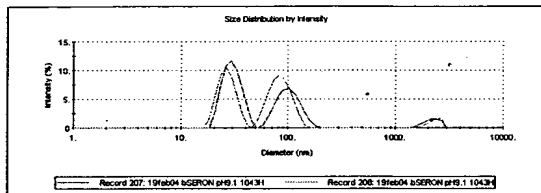
Figure # 11



Count rate (kcp/s): 149	Mean position (mm): 4.20		
Measurement duration (s): 80	Attenuation index: 11		
Z-Average size (nm): 53.52	Peak 1:	36.36	% Int: 95 Width (nm): 16.62
Polydispersity index: 0.215	Peak 2:	2135	% Int: 4 Width: 363.6
	Peak 3:	0	% Int: 0 Width: 0



Count rate (kcp/s): 141	Mean position (mm): 4.20		
Measurement duration (s): 80	Attenuation index: 11		
Z-Average size (nm): 42.57	Peak 1 Mean:	26.57	% Intensity: 45 Width: 4.857
Polydispersity index: 0.327	Peak 2 Mean:	66.23	% Intensity: 50 Width: 20.00
	Peak 3 Mean:	2259	% Intensity: 4 Width: 273



Count rate (kcp/s): 49	Mean position (mm): 4.20		
Measurement duration (s): 140	Attenuation index: 11		
Z-Average size (nm): 70.41	Peak 1 Mean:	8.44	% Intensity: 38 Width: 1.842
Polydispersity index: 0.365	Peak 2 Mean:	37.9	% Intensity: 3 Width: 7.005
	Peak 3 Mean:	170.6	% Intensity: 34 Width: 58.86

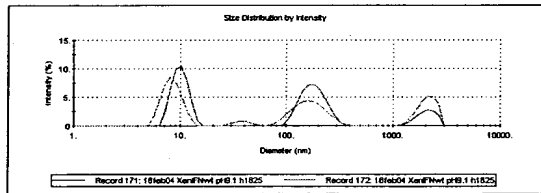


Figure 11a 12